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Ink jet recording material - contains quat. ammonium hydroxide

A(11-C4A, 12-W7F) E(10-A22) F(3-G, 5-A6D) G(5-F)

185

The material has an excellent light- and water-resistance.

TYPICAL QUAT. AMMONIUM CPD.

Tetra-2-hydroxyethyl ammonium hydroxide.

MANUFACTURE

The base material is, e.g., fabric, resin film or synthetic paper, etc. and (I) is added as an aq. soln. to a base material, e.g. in a paper-making process.

Alternatively, the base material is post-treated by dipping in a soln. contg. (I) or (I) is added to a coating.

The content of (I) in the aq. soln. is 0.05-2 wt.% and the content in the coating is 0.03-5 wt.%.

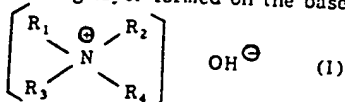
In addn. to (I) the casting contains (e.g., clay, talc or titanium oxide), water-soluble polymers, (e.g. gelatin, or polyvinyl alcohol), organic solvent-soluble polymers (e.g., polyvinyl butyral or PVC) a pH adjuster, antifoamers, lubricants, etc.

The content of (I) in the base material is 0.5-2 wt.%, since too high a content lowers the absorptivity of ink. (4ppW-90WA0/0).

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A recording material to be used with an ink jet contains a quaternary ammonium hydroxide of formula (I) in the base material or in a coating layer formed on the base material.



R₁₋₄ = alkyl (e.g., methyl, ethyl or dodecyl), an alcohol gp. (e.g. 2-hydroxyethyl or polyoxyethylene), an ether gp. an aromatic gp. (e.g. benzyl) etc.

ADVANTAGES

The material rapidly absorb ink but does not bleed even when different colours of recording inks are applied on the same place within a short period of time. It therefore provides sharp images of high definition.

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